Section E. Infectious Diseases, Immune Disorders, and Nutritional Deficiencies

Overview

In This Section This section contains the following topics:

Торіс	Topic Name
1	General Rating Principles for Infectious Diseases, Immune
	Disorders, and Nutritional Deficiencies
2	Tropical Diseases
3	Rheumatic Fever
4	Human Immunodeficiency Virus (HIV)-Related Illness
5	Chronic Fatigue Syndrome

1. General Rating Principles for Infectious Diseases, Immune Disorders, and Nutritional Deficiencies

Introduction	 This topic contains information about the general rating principles for infectious diseases, immune disorders, and nutritional deficiencies, including: definition of infectious diseases immune disorders, and nutritional deficiencies revisions of the infectious diseases, immune disorders, and nutritional deficiencies rating schedule evaluations under the infectious diseases general rating formula, and evaluating long-term health effects of 38 CFR 3.317 infectious diseases.
Change Date	
a. Definition: Infectious Diseases	 Infectious diseases are disorders caused by organisms, such as bacteria, viruses, fungi, or parasites. <i>Example</i>: Malaria. Note: Consider presumptive service connection (SC) for infectious diseases listed in 38 CFR 3.309(b) based on tropical service 38 CFR 3.309(c) based on confirmed FPOW status, and 38 CFR 3.317(c) based on service in the Southwest Asia theater of operations during the Gulf War or on or after September 19, 2001, in Afghanistan. References: For more information on presumptive SC for tropical diseases, see M21-1, Part IV, Subpart ii, 2.B.2.b FPOW disabilities, see M21-1, Part IV, Subpart ii, 2.E, and infectious diseases under <u>38 CFR 3.317</u>, see M21-1, Part IV, Subpart ii, 2.D.
b. Definition: Immune Disorders	<i>Immune disorders</i> cause abnormally low activity or overactivity of the immune system. In cases of immune system overactivity, the body attacks and damages its own tissues (autoimmune diseases). Immune deficiency diseases decrease the body's ability to fight invaders, causing vulnerability to infections. Immune disorders can be caused by organisms, use of medications, or other chronic conditions.

Example: Systemic lupus erythematosus.

Note: Consider presumptive SC for immune disorders listed in 38 CFR 3.309(a). c. Definition: Nutritional deficiencies occur when the body is unable to obtain the Nutritional necessary amount of a nutrient that is required for proper health. These Deficiencies deficiencies can be caused by diet, surgical residuals, genetics, environment, or other diseases. *Example*: Beriberi. *Note*: Consider presumptive SC for disabilities listed in SC <u>38 CFR 3.309(c)</u> based on based on confirmed FPOW status. *Reference*: For more information on presumptive SC for FPOW disabilities, see M21-1, Part IV, Subpart ii, 2.E. d. Revisions of The criteria for rating disabilities based on infectious diseases, immune disorders, and nutritional deficiencies in 38 CFR 4.88b were most recently the Infectious Diseases, updated effective Immune **Disorders**, and • August 11, 2019, and **Nutritional** • August 30, 1996. Deficiencies Rating The purpose of these updates was to Schedule • incorporate medical advances • update medical terminology • add disabilities not previously included, and • refine rating criteria.

Note: These updates were not liberalizing changes in the rating criteria.

Reference: For more information on

- these and other historical changes to <u>38 CFR 4.88b</u>, see
 - 38 CFR 4, Appendix A
 - 38 CFR 4.88b (Historical), and
 - the <u>Board of Veterans Appeal Research Tools</u> website for historical <u>38</u> <u>CFR 4.88b</u>, and
- effect of rating schedule readjustment, see M21-1, Part III, Subpart iv, 5.B.2.j.

e. Evaluations Under the Infectious Diseases General Rating Formula	listed under <u>38 CFR 4.88b</u> had its own prescribed rating criteria. Effective August 11, 2019, <u>38 CFR 4.88b</u> contains a general rating form	
	 assign the prescribed evaluation during the active disease phase, and thereafter, assign a 0 percent evaluation for the infectious disease under the relevant <u>38 CFR 4.88b</u> DC, and evaluations for any residual disability of the infection within the appropriate body system as indicated by the notes in the evaluation criteria. 	
	 Notes: Regardless of whether resolution occurs spontaneously or because of treatment, long-term disability in such situations results from residual functional impairment of the body systems affected by the infectious disease, rather than the infection itself. Infectious diseases for both the initial diagnosis and any relapse of active infection must be confirmed by diagnostic testing specific to the disease. 	
f. Evaluating Long-Term Health Effects of 38 CFR 3.317 Infectious Diseases	As applicable, consider the long-term health effects potentially associated with infectious diseases as listed in <u>38 CFR 3.317(d)</u> , specifically for brucellosis, Campylobacter jejuni, Coxiella burnetii (Q fever), malaria, Mycobacterium tuberculosis, nontyphoid Salmonella, Shigella, visceral leishmaniasis, and West Nile virus. <i>Reference</i> : For more information on presumptive SC for infectious diseases under <u>38 CFR 3.317</u> , see M21-1, Part IV, Subpart ii, 2.D.	

2. Tropical Diseases

Introduction	This topic contains information about tropical diseases, including
	 specific tropical diseases obtaining information about tropical diseases incubation periods of tropical diseases, and considering service connection (SC) for tropical diseases not of record.
Change Date	December 13, 2005
a. Specific Tropical Diseases	The following tropical diseases, among others, may require attention in view of their incidence in areas of foreign service:
	 bacterial infections, including bacillary dysentery cholera Hansen's disease (leprosy) Oroya fever pinta plague relapsing fever, and yaws viral infections, including yellow fever roundworm parasitic infections, including dracontiasis filariasis (Bancroft's type) hookworm infection loiasis, and onchocerciasis, and other parasitic infections, including amebiasis blackwater fever leishmaniasis malaria, and schistosomiasis Notes: Rate amebiasis and schistosomiasis under the digestive system.

	• Rate pinta, verruga peruana (a late residual of Oroya fever), onchoceriasis, oriental sore, and espundia (Old World cutaneous and American (New World) mucocutaneous leishmaniasis) under diseases of the skin.		
	 <i>Reference</i>: For more information on t <u>38 CFR 3.307(a)(4)</u> <u>38 CFR 3.309(b)</u>, and M21-1, Part IV, Subpart ii, 2.B.2.b, a M21-1, Part IV, Subpart ii, 1.I.2. 	-	
b. Obtaining Information About Tropical Diseases	An understanding of the locality, incub diseases may be obtained from standar <i>Reference</i> : For more information on the Manual of Diagnosis and Therapy.	rd treatises.	
c. Incubation Periods of Tropical Diseases	The table below contains the incubation periods of some tropical diseases.		
	Tropical Disease	Incubation Period	
	dracontiasis (Guinea worm disease)	14 months	
	filariasis, Bancroft's type	up to 8 to 12 months	
	kala-azar (visceral leishmaniasis)	up to one year	
	Hansen's disease (leprosy)	five years or more	
	loiasis, calabar swelling	three years	
	oriental sore, Old World cutaneous leishmaniasis	up to 18 months	
d. Considering SC for Tropical Diseases Not of Record	 When considering SC for tropical dise always consider tropical residence other than consult standard texts for disease fac locality of confinement early symptoms course of the disease, and 	n that during military service, and	

diseases, see M21-1, Part IV, Subpart ii, 1.I.2.

3. Rheumatic Fever

Introduction	This topic contains information about rheumatic fever, including	
	 definition of rheumatic fever complications of rheumatic fever the prognosis of rheumatic fever, and considering the effects of rheumatic heart disease. 	
Change Date	December 13, 2005	
a. Definition: Rheumatic Fever	 Rheumatic fever is an acute, subacute, or chronic systemic disease that, for unknown reasons, is self-limiting or may lead to slowly progressive valve deformity of the heart. <i>Reference</i>: For more information on evaluating rheumatic fever, see <u>38 CFR</u> <u>4.88b, diagnostic code (DC) 6309</u>. 	
b. Complications of Rheumatic Fever	Complications of rheumatic fever include • cardiac arrhythmias • pericarditis • rheumatic pneumonitis • pulmonary embolism • pulmonary infarction • valve deformity, and • in extreme cases, congestive heart failure.	
c. Prognosis of Rheumatic Fever	 The prognosis is good in cases of rheumatic fever. If the age of onset is post-adolescence, residual heart damage occurs in less than 20 percent of the cases, and is generally less severe than if the onset is during childhood. <i>Note</i>: Mitral valve insufficiency is the most common residual. 	
d. Considering the Effects of	For more information on the effects of rheumatic heart disease, see • <u>38 CFR 4.104, DC 7000</u> , and	

Rheumatic
Heart Disease• M21-1, Part III, Subpart iv, 4.G.1.g.

4. HIV-Related Illness

Introduction	This topic contains information about HIV-related illness, including	
	 definition of HIV, and AIDS how HIV is diagnosed definition of CD4 T cells HIV transmission definition of approved medication(s) rating considerations for HIV-related illness, and rating AIDS. 	
Change Date		
a. Definition: HIV	 <i>Human immunodeficiency virus</i> (HIV) is spread through body fluids that affect specific cells of the immune system, called CD4 cells, or T cells. Over time, HIV can destroy so many of these cells that the body cannot fight off infections and disease. <i>Reference</i>: For more information on rating HIV, see <u>38 CFR 4.88b, and</u> M21-1, Part III, Subpart iv, 4.E.4.g. 	
b. Definition: AIDS	 Acquired immunodeficiency syndrome (AIDS) is a secondary infection and results from HIV infection. It is not a single distinct disease, but rather a disorder characterized by a severe suppression of the immune system, rendering the body susceptible to and unable to fight off a variety of normally manageable infections, cancers, and other diseases. Patients with AIDS suffer infections called "opportunistic" because they take the opportunity to attack when the immune system is weak. This may involve the intestinal tract, lungs, brain, eyes and other organs, as well as debilitating weight loss, diarrhea, and neurologic conditions. Important: If a Veteran has HIV and one or more of the following opportunistic infections, regardless of the CD4 (T4) count, the Veteran is considered to have a diagnosis of AIDS: candidiasis of the bronchi, trachea, esophagus, or lungs invasive cervical cancer occcidioidomycosis 	

- cryptococcosis
- cryptosporidiosis
- cytomegalovirus (particularly CMV retinitis)
- HIV-related encephalopathy
- herpes simplex-chronic ulcers for greater than one month, or bronchitis, pneumonia, or esophagitis
- histoplasmosis
- isosporiasis (chronic intestinal)
- Kaposi's sarcoma
- lymphoma
- mycobacterium avium complex
- tuberculosis
- pneumocystis jirovecii (carinii) pneumonia
- pneumonia, recurrent
- progressive multifocal leukoencephalopathy
- salmonella septicemia, recurrent
- toxoplasmosis of the brain, and
- wasting syndrome due to HIV.

References: For more information on

- rating AIDs, see
 - <u>38 CFR 4.88b</u>

- M21-1, Part III, Subpart iv, 4.E.4.h

- HIV/AIDS residuals, see HIV Basics | HIV/AIDS | CDC, and
- HIV/AIDS tests and treatment options, see <u>VA HIV/AIDS</u>.

c. How HIV Is Diagnosed HIV is primarily detected by testing a person's blood for the presence of antibodies (disease-fighting proteins) to HIV. Two antibody tests ELISA (enzyme-linked immunosorbent assay) and Western blot assay (a confirmatory test) are used. An alternative test, IFA (indirect immunofluorescence assay), may also be used.

The ELISA and Western blot may be negative for as long as three to six months after exposure to HIV.

If a person is highly likely to be infected with HIV, but both tests are negative, a test for the presence of HIV itself in the blood may be done.

d. Definition: A *CD4 T cell* is a type of lymphocyte, the white blood cell that bears the major responsibility for the activities of the immune system. The other major type is the B cell. Together, they fight off invading viruses, bacteria, parasites, and fungi. The "T4," "helper-T," or "CD4" cell helps regulate and direct immune activity.

Notes:

- A healthy, uninfected person has 800-1200 (or 500 to 1500 by some references) CD4 T cells per cubic millimeter of blood.
- During HIV, the number of these cells in the blood progressively declines.
- When the count falls below 200, the person is vulnerable to the opportunistic infections and cancers that typify AIDS.

e. HIV M Transmission

Major means of HIV transmission are

- 1551011
 - sexual contact
 - infected blood, and
 - needle stick accidents.

Notes:

- No evidence exists that HIV is transmitted through
 - saliva, sweat, tears, urine, or feces
 - casual contact such as the sharing of food utensils, towels and bedding, swimming pools, telephones, or toilet seats, or
 - biting insects such as mosquitoes, flies, ticks, fleas, bees, wasps, or bedbugs.
- If there is evidence indicating that the HIV-related illness was the result of intravenous drug abuse, ensure that the authorization activity has conducted a Line of Duty/Willful Misconduct administrative decision prior to rating.
- There is no presumptive SC provision for HIV. Veterans must establish SC under other provisions, such as direct SC under 38 CFR 3.303 by establishing an in-service event, injury, or disease as the cause of HIV.

References: For more information on

- willful misconduct and line of duty determinations, see M21-1, Part III, Subpart v, 1.D, and
- establishing direct SC, see M21-1, Part IV, Subpart ii, 2.B.1.

f. Definition: Approved Medication(s)	When rating an HIV case, the term <i>approved medication(s)</i> includes treatment regimens and medications prescribed as part of a research protocol at an accredited medical institution.
g. Rating Considerations	When evaluating HIV-related illness, consider
for HIV	 severity and frequency of constitutional symptoms
	• use of approved medication(s)
	• T4 cell count, and

• the development of AIDS-related opportunistic infection or neoplasm.

Notes:

- Only patients with HIV who are asymptomatic should be rated at 0 percent.
- An evaluation of 30 percent should be the minimum if there are recurrent constitutional symptoms, even if they have responded to appropriate treatment.
- In ratingHIV, consider the following:
 - rating may be based on <u>38 CFR 4.88b, DC 6351</u> criteria, or
 - separate evaluations may be warranted under the appropriate diagnostic codes if other defined conditions due to HIV infection or its treatment develop. This could include psychiatric illness, central nervous system manifestations, opportunistic infections, and neoplasms.

Examples:

- Enlarged lymph nodes and fatigue (HIV-related constitutional symptoms) warrant a 10 percent; however, if pelvic inflammatory disease (PID) or other symptoms develop, the evaluation could go to 30 percent if the symptoms go into remission and then reoccur (recurrent symptoms) or 60 percent if they do not respond to treatment (refractory symptoms).
- If there is a CD4 count of 400, the Veteran is on HAART, and there are symptoms of depression but no other significant signs or symptoms of the infection or its treatment, it would be appropriate to assign 10 percent. However, if the depression rises to the level of a diagnosed major depression or dysthymic disorder, consider evaluating it separately as a secondary condition, with the potential of a higher rating. The HIV infection would still warrant a 10 percent evaluation under <u>38 CFR 4.88b</u>, DC 6351, based on findings not related to symptoms of depression—low CD4 count and treatment.

Reference: For more information on avoidance of pyramiding, see

- 38 CFR 4.14
- Esteban v. Brown, 6 Vet.App. 259 (1994), and
- M21-1, Part III, Subpart iv, 5.B.2.b.

In instances of	Note that
opportunistic infections	• once an AIDS-related opportunistic infection
	or neoplasm appears, the rating will be 60
	percent or above
	• many of the opportunistic infections will
	warrant a 100 percent evaluation, at least for a
	time (TB, lymphoma, etc.), and

h. RatingAIDSOnce a Veteran develops AIDS, evaluate the specific findings based on the table below.

	• special monthly compensation (SMC) will be a frequent consideration.
cancer	it should be rated separately, if advantageous to the Veteran, as long as its symptomatologies are
	not also used to support a 60 or 100-percent evaluation under DC 6351.
episodic problems	 the possibility exists that a particular examination may have been done at a time between episodes of opportunistic infections when findings are relatively few, and the overall history for the past year or so should be considered when rating, since some AIDS complications can be episodic.

References: For more information on,

- rating evaluations, see <u>38 CFR 4.88b Schedule of Ratings-Infectious</u> <u>Diseases, Immune Disorders and Nutritional Deficiencies</u>
- treatment options, see
 - HIV Basics | HIV/AIDS | CDC
 - VA HIV/AIDS, and
 - Medical EPSS.

5. Chronic Fatigue Syndrome

Introduction	This topic contains information about chronic fatigue syndrome, including	
	 definition of chronic fatigue syndrome, and rating considerations for chronic fatigue syndrome. 	
Change Date		
a. Definition: Chronic Fatigue Syndrome	<i>Chronic fatigue syndrome</i> is a complex, multisymptom, debilitating illness characterized by physical and mental manifestations.	
b. Rating Considerations for CFS	When rating a chronic fatigue syndrome case, keep in mind that a diagnosis requires the following:	
	 new onset of debilitating fatigue severe enough to reduce daily activity to less than 50 percent of the usual level for at least six months, and the exclusion, by way of a thorough evaluation, of all other clinical conditions that may produce similar symptoms based on history, physical examination, and laboratory tests. 	
	In addition, six or more of the following criteria must be met:	
	 acute onset of the condition low grade fever sore throat with no secretions (nonexudative pharyngitis) palpable or tender cervical or axillary lymph nodes generalized muscle aches or weakness fatigue lasting 24 hours or longer after exercise headaches (of a type, severity, or pattern that is different from headaches in the pre-morbid state) migratory joint pains neuropsychological symptoms, and sleep disturbance. <i>Note</i>: Consider presumptive SC for chronic fatigue syndrome as a medically unexplained chronic multisymptom illness under <u>38 CFR 3.317(a)</u>. <i>Reference</i>: For more information on chronic fatigue syndrome, see 	

- <u>38 CFR 4.88b</u>
 <u>Medical EPSS</u>, and
- M21-1, Part IV, Subpart ii, 2.D.1.i.